

Possum Point – “C” Ash Pond Pumping System

Responsibilities

May 6, 2014

System Description – General

- Pump from “C” ash pond to “E” ash pond.
- Temporary system being planned; may prove to be permanent.
- One small electric pump, one large electric pump – both rentals. Ops manually selects which pump will operate.
- Automatic on/off/alarm controls based on LO/HI/HIHI float switches
- In-Service Date – to be determined (Dave Craymer)

Engineering

- Define routine pumping requirements (rainfall, dewatering) – BOP Eng
- Define emergency pumping requirements (emergency event, response) – BOP Eng
- Define dike spillover situation (pump failure or pumping capacity exceeded) – BOP Eng
- Establish scope of work, cost estimate to plug 30-inch concrete pipe – BOP Eng
- Describe permanent pumping system (plan, flow diagram, major components) – BOP Eng
- Obtain quotes for pump rentals – BOP Eng
- Describe power requirements. – BOP Eng
- Design power feed to pumps. - Station
- Design water level, pump start/stop controls, remote alarm. – Station
- Design spool piece to be installed in Unit 3 ash pipe. – Mechanical Contractor
- Design pump suction pipe for permanent installation in “C” pond outlet box – Mechanical Contractor

Procurement

- Rent pump(s) and related equipment. - Station
- Purchase piping , valves, fittings, supports. – Mechanical Contractor
- Fabricate spool piece for Unit 3 ash pipe tie-in. – Mechanical Contractor
- Purchase electrical equipment for power supply. – Electrical Contractor
- Purchase pump controls equipment and remote water level alarm. - Station

Construction

- Stabilize ash pond "C" access road with gravel; grade area around ash pond "C" outlet box. - Station
- Install spool piece in Unit 3 ash line, fill and check ash piping for leaks. Replace gaskets, etc. – Mechanical Contractor
- Install permanent pump suction pipe for "C" pond outlet box. – Mechanical Contractor
- Run new piping from C pond to U3 ash line spool piece. – Mechanical Contractor
- Rent temporary power supply (if necessary) – Station
- Install permanent power supply and controls – Electrical Contractor

Operation

- Ops checks system once per shift.
- Hi level Alarm – Ops will come to pond and inspect. Can shift to large pump controls if necessary, shift back to small pump controls next walk-down.
- Imminent emergency (hurricane approaching) – manually shift pump controls to large pump.